BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

	Estimate Cost Rs.	1650000.00

Name of Work: Detailed Estimate for the work of Construction of drain and improvements to roads at lake view layout in ward No- 01 of yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	berm cutting,cross Road		2	135.00	0.80	0.45	97.20		
	main Road		2	250.00	1.00	0.45	225.00		
	desilting of existing drain		2	96.00	0.45	0.30	25.92		
	main Road		1	100.00	0.45	0.30	13.50		
	sathish house road		2	116.50	0.45	0.30	31.46		
	culverts		2	7.00	1.50	0.75	15.75		
							408.83	75.60	30907.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
2	KSRB 2-2.1 earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications specification, No, KBS 2.1(a) / 2.3.5. No. 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	rcc drain		1	48.00	1.00	1.00	48.00		
	earthen drain		1	55.00	1.00	0.90	49.50		
							97.50	176.04	17164.00
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	176.04							
3	KSRB 100-1 Loading and unloading olstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
			Vide Item No. 1+2				506.33	79.10	40050.00
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	79.10							
4	Removing B S slab of drain and stacking item no 5.32 page No 25 SR 2014-15	sqm							
	cross road		1	116.50	1.35		157.28		
	main road		1	196.00	1.35		264.60		
							421.88	58.32	24604.00
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	58.32							
5	Refixing stone slabs of drains and pointing in C.M (1:3) item no 5.33 page No 25 SR 2014-15	sqm							
	70% refixing						295.31		
							295.31	75.60	22326.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
6	Providing 7.5cms thick granite slabs of selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc complete Item No 5.31 page No 25 SR 2014-15	sqm							
	30% missing qty						126.56		
							126.56	639.36	80919.00
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	639.36							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 5-14 Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No.25 item No 5.27 SR 2014-15	sqm							
	flagging course	1x2	2	116.50	0.20		46.60		
	Main Road	1x2	2	100.00	0.20		40.00		
							86.60	993.60	86046.00
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	993.60							
8	KSRB-4-1.2 Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	for smoothflow of water		1	116.50	0.45	0.10	5.24		
	main road		1	196.00	0.45	0.10	8.82		
	covering		2	116.50	0.20	0.10	4.66		
			2	100.00	0.20	0.10	4.00		
	RCC drain		1	48.00	0.80	0.15	5.76		
							28.48	5064.12	144238.80
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	5064.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc.** including cost of all materials labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for RCC drain bed		1	48.00	0.80	0.15	5.76		
	side walls		2	48.00	0.15	0.90	12.96		
	Beam for existing culvert	2x2	4	7.00	0.45	0.30	3.78		
							22.50	**6065.28**	**136469.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
10	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps hooks and wastage shall not be measured and paid) cost pf materials, labour HOM of machinery complete as per specifications. Specification No. KBS 4.5.3 Page No. 19/ Item No. 4.46/ PWD SR 2014-15	Quintal							
	90 kg/cum for RCC drain		0.900	**22.50**			20.25		
				22.50			**20.25**	**7254.80**	**146910.00**
	Basic Rate	7254.80							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attache dpilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	rcc drain 1st cross	1x4	4	48.00	0.90		172.80		
							172.80	292.68	50575.00
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	292.68							
12	RCC Precast covering slab for drain (10cm thick)	sqm							
	cross road		1	116.50	0.90		104.85		
	main road		1	100.00	0.90		90.00		
	for rcc drain		1	48.00	0.90		43.20		
							238.05	1498.00	356599.00
	Rate Approved by BBMP	1498.00							
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH specification NO 406, No 154, item No 20.18 SR 2014-15	cum							
	either side		2	135.00	1.50	0.15	60.75		
							60.75	1438.56	87393.00
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	1438.56							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRRB M500-6: providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15	sqm							
			1	135.00	6.00		810.00		
	Basic Rate	32.60					810.00	35.21	28518.00
	Area Weightage @ 8%	2.61							
	Total	35.21							
16	KSRRB M500-18: providing and laying Semidence bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading II (25-30mm) with 5% CRMB -55 grade No 160/ Item No 21.21.6 SR 2014-15	cum							
			1	135.00	6.00	0.025	20.25		
	Basic Rate	10066.00					20.25	10871.28	220143.00
	Area Weightage @ 8%	805.28							
	Total	10871.28							
17	KRIDL Charges + Labourcess 11%						Sub Total		1472380.01
18	1% of Quality control charges								161962.00
19	Miscellaneous charges								14724.00
									933.99
								Total	1650000.00

(Rupees Sixty lakhs fifty thousand Only)

Administrative Approval Accorded for Rs. 16.50 lakhs is accd: P01/90 81 Dt: 13-1-14 re: 1 CE (RTP)

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CERTIFICATE

1 The work spot has been inspected and the work is found necessary
2 This estimate is prepared as per C.S.R. of 2014-15
3 The provisions were made in this estimate are necessary and adequate
4 This works come under B.B.M.P. limits

Assistant Engineer

Executive Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

NAME OF WORK: Construction of drain and improvements to roads at lake view layout in ward No- 01 of yelahanka Sub Division.